

TITLE: Post-Graduate-Stable Isotope Geochemistry
DEPARTMENT: Department of Energy
AGENCY: National Energy Technology Laboratory (NETL)
LEVEL: Post-Graduate
POSITION INFORMATION: Temporary Appointment, ~ 1 year starting period with opportunity for renewal. Full-Time, (40 hours per week)
DUTY LOCATION: Pittsburgh, PA
WHO MAY BE CONSIDERED: United States Citizens; Foreign Nationals holding F-1 Visa with OPT & EAD Card, or J-1 Visa status inside the US, and LPRs

SUMMARY:

Through the Oak Ridge Institute for Science and Education (ORISE) this posting seeks motivated post-graduates (MS and PhD) interested in conducting research as part of the geologic and environmental sciences focus area research team at NETL. NETL is a multi-disciplinary, scientific and technical-oriented national laboratory. NETL's Office of Research and Development (ORD) conducts research to evaluate environmental impacts and risk assessments associated with domestic energy resource development.

As carbon storage sites or gas shale plays are developed, monitoring strategies are needed in order to evaluate whether gases or fluids have leaked into shallower geologic reservoirs such as groundwater aquifers. One objective of the geological and environmental sciences focus area is to develop and demonstrate a protocol for the use of natural geochemical tracers to monitor groundwater systems. Specific tracers of interest include naturally-occurring stable isotopes and natural bulk geochemical signals.

Applicants for this position must have a background in geochemistry, stable isotopes, and experience the development and implementation of protocols for the collection of field samples. Candidates should have experience with the analysis and interpretation ICP, GC, IC, isotope and bulk chemistry data. Familiarity with geology, statistics, groundwater geochemistry, and CO₂ storage and oil and gas operations, would be beneficial. Successful candidates will work to help improve and develop geochemistry facilities associated with NETL and collaborator institutions.

KEY REQUIREMENTS:

- Applicants must be U.S. Citizens or approved Foreign Nationals suitable for this position, as determined by background investigation.
- Must hold a Masters and/or PhD degree from an accredited institution in a field appropriate for the applicant's area of expertise. Qualified candidates working towards a M.S. or Ph.D. will also be considered based on research experience.
- Must have the ability to travel between NETL-Pittsburgh and NETL-Morgantown, and local collaborating universities.

HOW TO APPLY:

Applicants should apply through the Oak Ridge Institute for Science and Education (ORISE) program. The ORISE Program provides opportunities for undergraduate students, recent graduates, graduate students, postdoctoral researchers, and faculty researchers. NETL utilizes

the ORISE program to support research and work within NETL's Office of Research & Development.

- Interested applicants should complete the online application at <https://netl.orau.gov/>
- In the online application **list Alexandra Hakala as your requested mentor.** This will associate your application with this job posting.
- If you have additional questions please contact Nancy Andres, Nancy.Andres@NETL.DOE.GOV, who is the NETL ORISE program contact.